

Mathematics

Direct or inverse proportion?

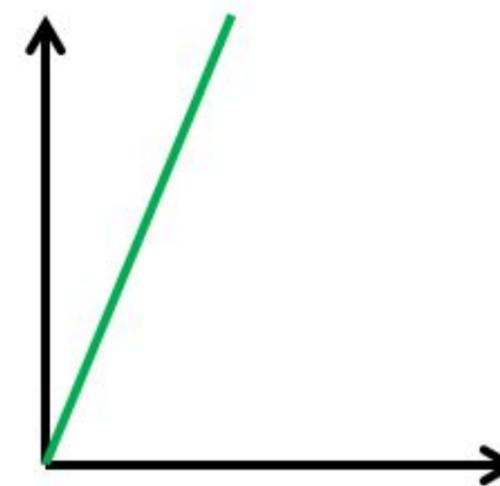
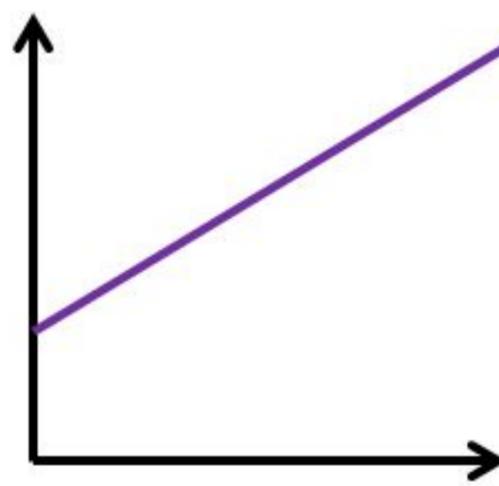
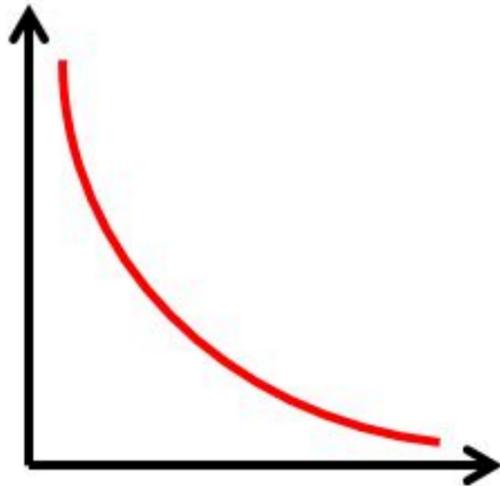
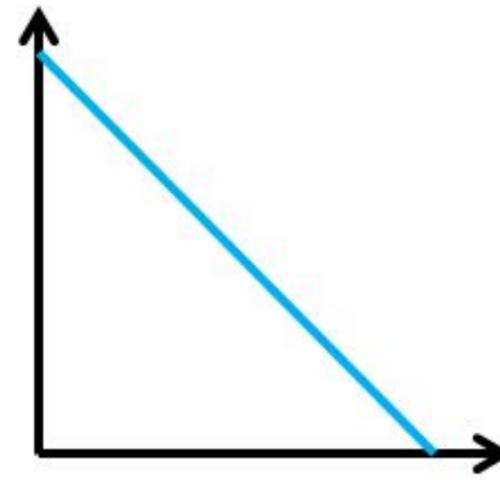
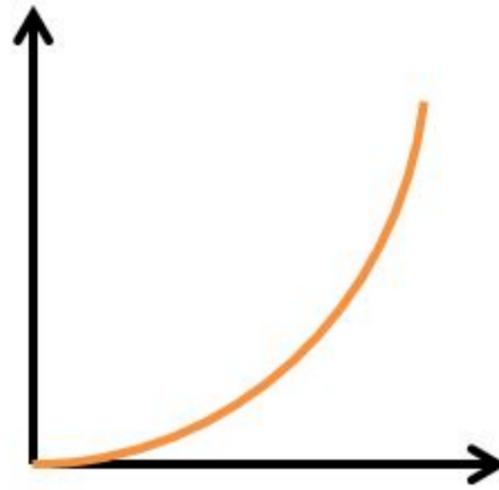
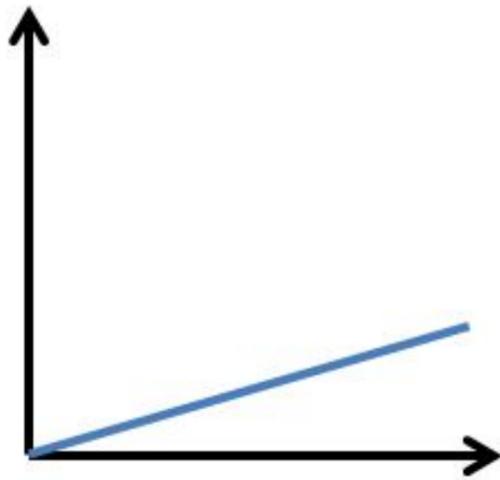
Downloadable resource

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Try this

Do these representations show direct proportion, inverse proportion or neither?



Suggest a possible scenario for each graph.



Independent task

1) This is the recipe for 12 pancakes:

Ashley has the following ingredients in his cupboard.

- 250 g plain flour
- 6 large eggs
- 1 litre milk
- 8 lemons
- 100 g caster sugar

What is the maximum number of pancakes that he can make?

You may find the bar models useful.

12 pancakes

100 g plain flour

2 large eggs

300 mL milk

3 lemons

30 g caster sugar



Independent task

2) The time in days, T , it takes to build a house is inversely proportional to the number of builders, N , working on the house. 8 builders take 25 days to build a house.

- a) How many days would 4 builders take?
- b) How many days would 10 builders take?



Explore

Draw Frayer models for direct and inverse proportion.

What is the same?

What is different?

